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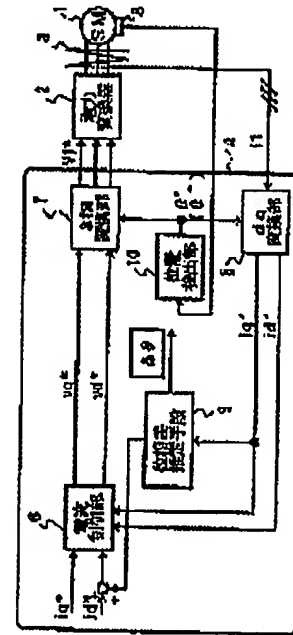
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(54) MOTOR CONTROLLER AND CONTROLLER FOR ELECTRIC ROLLING STOCK AND CONTROLLER FOR HYBRID CAR

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a motor controller estimating the phase displacement of the place of the magnetic poles of a rotor and the detecting value of a position sensor with high accuracy without extending the sensor anew.

SOLUTION: In the motor controller detecting the places of the magnetic poles of a rotor 1 for a synchronous motor 1 by using a position sensor 8 and driving and controlling the synchronous motor 1 in response to the detecting values of the places of the magnetic poles, a control section 4 has a phase-difference estimating means 9 for estimating a phase difference $\Delta\theta$ of the reference place of the rotor 1 for the synchronous motor 1 and the reference place of the position sensor 8, only by the detecting value of a current detector 3 detecting the current of the synchronous motor 1.



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